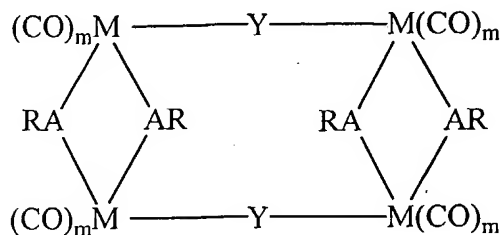


In the claims:

1. (Currently Amended) A rectangular supramolecule having the following structure:



wherein

M is Re, Mn, Cr, Mo, W, Fe, Ru, or Os;

Y is a nitrogen-based didentate ligand;

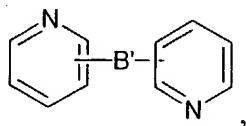
A is O, S, Se, or Te;

R is $C_3\sim C_{16}$ alkyl, $(CH_2)_n$ -aryl, or $(CH_2)_n$ -aryl- $(O-C_1\sim C_{16}$ alkyl) $_p$, in which n is 0-15, p is 1-3; and

m is ~~1, 2, 3, 4, or 5~~ 1-5.

2. (Original) The rectangular supramolecule of claim 1, wherein M is Re.
3. (Original) The rectangular supramolecule of claim 2, wherein m is 3.
4. (Original) The rectangular supramolecule of claim 1, wherein R is $C_3\sim C_{16}$ straight chain alkyl.
5. (Original) The rectangular supramolecule of claim 1, wherein A is O.

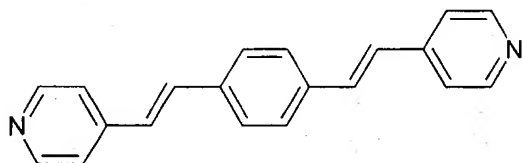
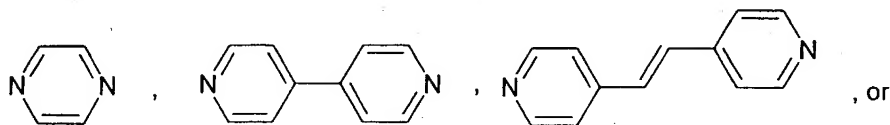
6. (Original) The rectangular supramolecule of claim 1, wherein Y is diazine or a ligand of the formula:



wherein B' is a bond, alkyl, alkenyl, alkynyl, cyclyl, heterocyclyl, aryl, or heteroaryl.

7. (Original) The rectangular supramolecule of claim 6, B' is a bond, alkenyl, alkynyl, or aryl.

8. (Original) The rectangular supramolecule of claim 6, wherein Y is

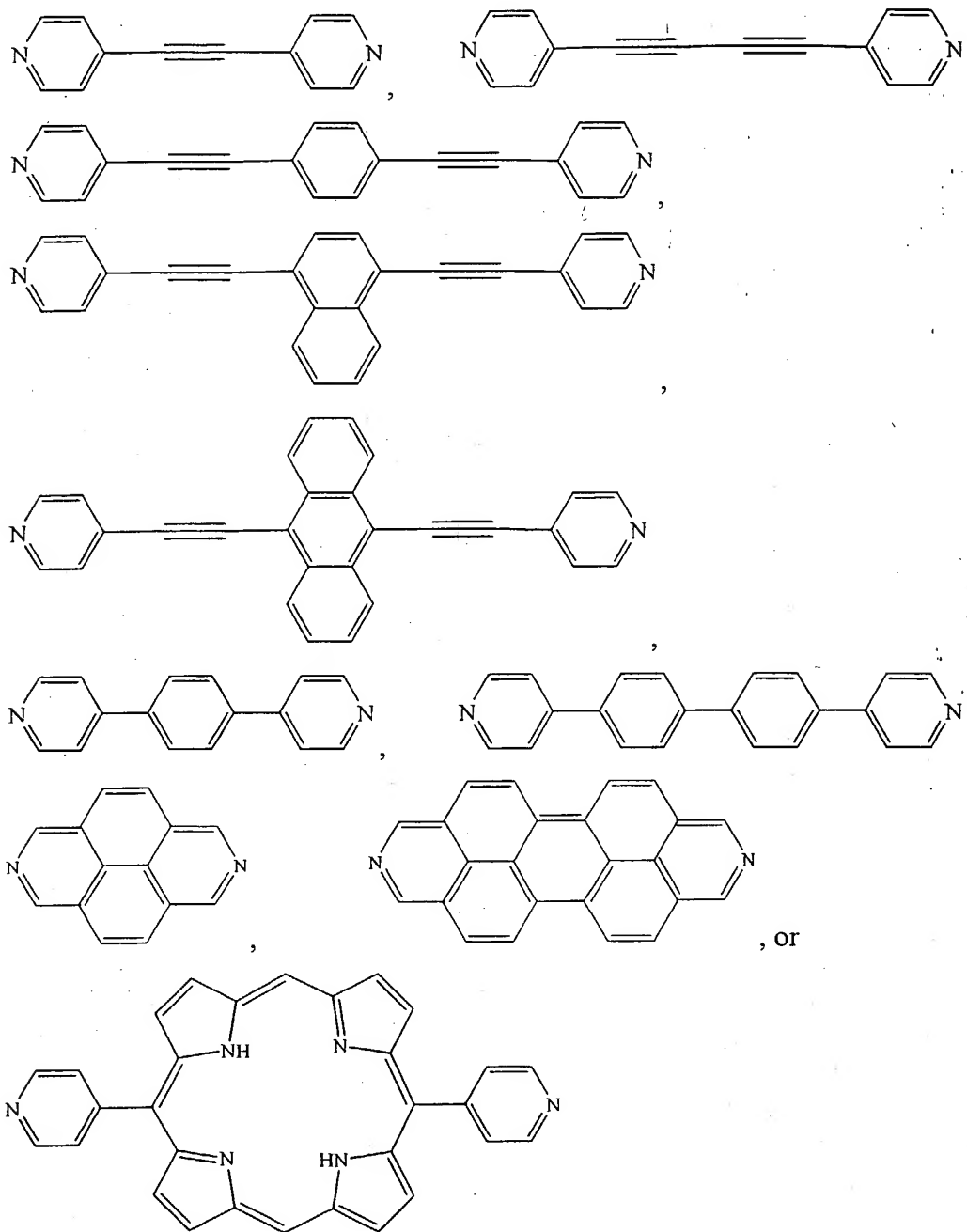


9. (Original) The rectangular supramolecule of claim 6, wherein M is Re, and m is 3.

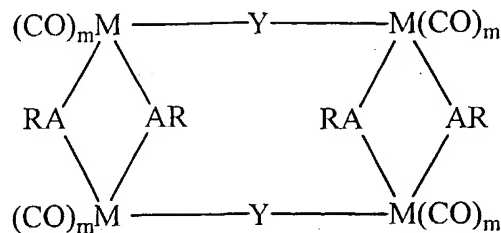
10. (Original) The rectangular supramolecule of claim 6, wherein R is C₃~C₁₆ straight chain alkyl.

11. (Original) The rectangular supramolecule of claim 6, wherein A is O.

12. (Original) The rectangular supramolecule of claim 6, wherein Y is



13. (Currently Amended) A method for making a rectangular supramolecule having the following structure:



wherein M is Re, Mn, Cr, Mo, W, Fe, Ru, or Os; Y is a nitrogen-based didentate ligand; A is O, S, Se, or Te; R is $\text{C}_1\text{--}\text{C}_{16}$ alkyl, $(\text{CH}_2)_n\text{-aryl}$, or $(\text{CH}_2)_n\text{-aryl-(O-C}_1\text{--}\text{C}_{16}\text{ alkyl)}_p$, in which n is 0-15, p is 1-3; and m is ~~1, 2, 3, 4, or 5~~ 1-5;

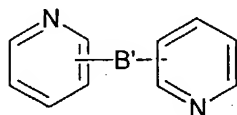
the method comprising:

reacting $\text{M}(\text{CO})_{m+2}$ with a nitrogen-based didentate ligand in the presence of an RAH at an elevated temperature to form the rectangular supramolecule.

14. (Original) The method of claim 13, wherein M is Re and m is 3.

15. (Original) The method of claim 13, wherein RAH is a $\text{C}_1\text{--}\text{C}_{16}$ aliphatic alcohol.

16. (Original) The method of claim 13, wherein Y is diazine or a ligand of the formula:



wherein B' is a bond, alkyl, alkenyl, alkynyl, cyclyl, heterocyclyl, aryl, or heteroaryl.

Claims 17-21. (Cancelled)